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ICDSMLA 2021 Springer Nature International Conference on Trends in Technology and Engineering – ICTTE ' 15 is organized by in association with Arjun College of Technology and International Journal for Trends in Engineering & Technology (IJTET). . The conference theme concentrates to discover the latest technological innovation, trends in technology and engineering and that are experienced by the professionals with the present strict rules and to convert these complications into prospects. Authors are approved to post original research or system documents on any appropriate topics. These can either be frequent or brief documents.

Recent Trends in Renewable Energy Sources and Power Conversion Springer Nature

This book presents the select proceedings of the International Conference on Structures, Materials and Construction (ICSMC 2021). It covers the recent developments and futuristic trends in the field of structural engineering and construction management, including new building materials and understanding their behavior. The topic covered also assess the current progress and state-of-the-art techniques in structural experimentation, smart materials, structures technology, principles of construction management, materials properties and characterization. The collection of papers included in this proceeding will contribute to scientific developments in the field of structural engineering and construction and will be a useful as reference material

for the academicians, researchers and most importantly the student community pursuing research in the fields of structural engineering and construction technology.

I3CAC 2021 Springer Nature

This book presents select peer-reviewed proceedings of the International Conference on Frontiers in Smart Systems Technologies (ICFSST 2019). It focuses on latest research and cutting-edge technologies in smart systems and intelligent autonomous systems with advanced functionality. Comprising topics related to diverse aspects of smart technologies such as high security, reliability, miniaturization, energy consumption, and intelligent data processing, the book contains contributions from academics as well as industry. Given the range of the topics covered, this book will prove useful for students, researchers, and professionals alike.

Recent Advances in Material, Manufacturing, and Machine Learning CRC Press

I3CAC provides a premier interdisciplinary platform for researchers, practitioners and educators to present and discuss not only the most recent innovations, trends, and concerns but also practical challenges encountered and solutions adopted in the fields of computing, communication and control systems. Participation of three renowned speakers and oral presentations of the 128 authors were presented in our conference. We strongly believe that the I3CAC 2021 conference provides a good forum for all researchers, developers and practitioners to discuss.

Optimization Techniques in Engineering Springer Nature

Blockchain technology has the potential to utterly transform supply chains, streamline processes, and improve the whole of security. Manufacturers across the globe face challenges with forecasting demand, controlling inventory, and accelerating digital transformation to cater to the challenges of changing market dynamics and evolving customer expectations. Hence, blockchain should be seen as an investment in future-readiness and customer-centricity, not as an experimental technology. Utilizing Blockchain Technologies in Manufacturing and Logistics Management explores the strengths of blockchain adaptation in manufacturing industries and logistics management, which include product traceability, supply chain transparency, compliance monitoring, and auditability, and also examines the current open issues and future research trends of blockchain. Leveraging blockchain technology into a manufacturing enterprise can enhance its security and reduce the rates of systematic failures. Covering topics such as fraud detection, Industry 4.0, and security threats, this book is a ready premier reference for graduate and post-graduate students, academicians, researchers, industrialists, consultants, and entrepreneurs, as well as micro, small, and medium enterprises.

Urban Air Quality Monitoring, Modelling and Human Exposure Assessment Springer

Health and Environmental Effects of Ambient Air Pollution is part of a series of three volumes for Air Pollution, Human Health, and the Environment. Volume 1 discusses the adverse consequences of ambient air pollutants on human health, animals, plants, and structures. This book examines the production of ambient air pollutants in the environment. It begins with an overview of the classifications, sources, and occurrences of outdoor air pollutants. This book covers meteorological, climate, and topographical factors affecting air pollution, discusses how urbanization and industrialization affect air quality, and explores how climate conditions like global warming, acid rain, and airborne particulate matter impact human health. It also looks at epidemiology studies and socioeconomic aspects of outdoor air pollution, estimating health and cost effects, air quality indices, guidelines, standards, and information networks of ambient air pollutants. With contributors from experts in the field, this book is a valuable reference for academicians, researchers, and students in environmental health, public health, and occupational

health, as well as environmental engineers, meteorologists, epidemiologists, medical researchers, and environmental toxicologists. Discusses both causes of ambient air pollution and the toxicological impact on human health Covers the health risk assessment of ambient air with an emphasis on the elements, exposure, and risk management Examines air quality management and other ambient air pollution solutions Discusses the environmental effects of ambient air pollutants like climate change and global warming Examines the epidemiology studies, estimating health and cost effects

Advanced Technologies for Smart Agriculture Research Publishing Service

OPTIMIZATION TECHNIQUES IN ENGINEERING The book describes the basic components of an optimization problem along with the formulation of design problems as mathematical programming problems using an objective function that expresses the main aim of the model, and how it is to be either minimized or maximized; subsequently, the concept of optimization and its relevance towards an optimal solution in engineering applications, is explained. This book aims to present some of the recent developments in the area of optimization theory, methods, and applications in engineering. It focuses on the metaphor of the inspired system and how to configure and apply the various algorithms. The book comprises 30 chapters and is organized into two parts: Part I — Soft Computing and Evolutionary-Based Optimization; and Part II — Decision Science and Simulation-Based Optimization, which contains application-based chapters. Readers and users will find in the book: An overview and brief background of optimization methods which are used very popularly in almost all applications of science, engineering, technology, and mathematics; An in-depth treatment of contributions to optimal learning and optimizing engineering systems; Maps out the relations between optimization and other mathematical topics and disciplines; A problem-solving approach and a large number of illustrative examples, leading to a step-by-step formulation and solving of optimization problems. Audience Researchers, industry professionals, academicians, and doctoral scholars in major domains of engineering, production, thermal, electrical, industrial, materials, design, computer engineering, and natural sciences. The book is also suitable for researchers and postgraduate students in mathematics, applied mathematics, and industrial mathematics.

Futuristic Communication and Network Technologies John Wiley & Sons

This book gathers selected high-impact articles from the 3rd International Conference on Data Science, Machine Learning & Applications 2021. It highlights the latest developments in the areas of artificial intelligence, machine learning, soft computing, human – computer interaction and various data science and machine learning applications. It brings together scientists and researchers from different universities and industries around the world to showcase a broad range of perspectives, practices and technical expertise.

Nanomaterials John Wiley & Sons

This book gathers the best articles presented by researchers and industrial experts at the International Conference on " Innovative Design and Development Practices in Aerospace and Automotive Engineering (I-DAD 2018) " . The papers discuss new design concepts,

analysis and manufacturing technologies, with an emphasis on achieving improved performance by downsizing; improving the weight-to-strength ratio, fuel efficiency, and operational capability at room and elevated temperatures; reducing wear and tear; and addressing NVH aspects, while balancing the challenges of Euro IV/Barat Stage IV emission norms and beyond, greenhouse effects, and recyclable materials. The innovative methods discussed here offer valuable reference material for educational and research organizations, as well as industry, encouraging them to pursue challenging projects of mutual interest.

ICT Infrastructure and Computing Springer

Recent developments in the fields of intelligent computing and communication have paved the way for the handling of current and upcoming problems and brought about significant technological advancements. This book presents the proceedings of IConIC 2021, the 4th International Conference on Intelligent Computing, held on 26 and 27 March 2021 in Chennai, India. The principle objective of the annual IConIC conference is to provide an international scientific forum where participants can exchange innovative ideas in relevant fields and interact in depth through discussion with their peer group. The theme of the 2021 conference and this book is ‘ Smart Intelligent Computing and Communication Technology ’, and the 109 papers included here focus on the technological innovations and trendsetting initiatives in medicine, industry, education and security that are improving and optimizing business and technical processes and enabling inclusive growth. The papers are grouped under 2 headings: Evolution of Computing Intelligence; and Computing and Communication, and cover a broad range of intelligent-computing research and applications. The book provides an overview of the cutting-edge developments and emerging areas of study in the technological fields of intelligent computing, and will be of interest to researchers and practitioners from both academia and industry.

Smart Intelligent Computing and Communication Technology Springer

This new volume explores the integration of bionanomaterials and sustainable resources for the development of new and emerging sustainable processes. It highlights the concept of essential bionanomaterials derived from sustainable resources with examples of interdisciplinary methodologies and research that highlight the reuse of biomass waste as well as the proper usage of green technologies. The volume considers the most recent trends, challenges, and applications in bionanomaterials derived from sustainable sources in energy production and environmental mitigation. The book looks at state-of-the-art trends in the use of bionanomaterials for renewable energy such as in production of solar energy, for energy harvesting, and for energy conversion and storage. Chapters consider the application of bionanomaterials for the development of improved optical and electrical biosensors. The volume goes on to address the promising use of bionanomaterials for environmental remediation, such as for recovering heavy metals, radioactive metals, and other pollutants from wastewater, from river water, from soils, etc. Other topics include the use of sustainable nanomaterials in the food industry, in the biomedical field, in ecological research, and more.

Cutting-Edge Applications of Nanomaterials in Biomedical Sciences Elsevier

Forward thinking resource discussing emerging AI and IoT technologies and how they are applied to Industry 4.0 Topics in Artificial Intelligence Applied to Industry 4.0 discusses the design principles, technologies, and applications of emerging AI and

IoT solutions on Industry 4.0, explaining how to make improvements in infrastructure through emerging technologies. Providing a clear connection with different technologies such as IoT, Big Data, AR and VR and Blockchain, this book presents security, privacy, trust, and other issues whilst delving into real-world problems and case studies. The text takes a highly practical approach, with a clear insight on how readers can increase productivity by drastically shortening the time period between the development of a new product and its delivery to customers in the market by 50%. This book also discusses how to save energy across systems to ensure competitiveness in a global market, and become more responsive in how they produce products and services for their consumers, such as by investing in flexible production lines. Written by highly qualified authors, Topics in Artificial Intelligence Applied to Industry 4.0 explores sample topics such as: Quantum machine learning, neural network implementation, and cloud and data analytics for effective analysis of industrial data Computer vision, emerging networking technologies, industrial data spaces, and an industry vision for 2030 in both developing and developed nations Novel or improved nature-inspired optimization algorithms in enhancing Industry 5.0 and the connectivity of any components for smart environment Future professions in agriculture, medicine, education, fitness, R&D, and transport and communication as a result of new technologies Aimed at researchers and students in the interdisciplinary fields of Smart Manufacturing and Smart Applications, Topics in Artificial Intelligence Applied to Industry 4.0 provides the perfect overview of technology from the perspective of modern society and operational environment.

Advances in Computer Science and Information Technology. Computer Science and Information Technology CRC Press

Distributed systems intertwine with our everyday lives. The benefits and current shortcomings of the underpinning technologies are experienced by a wide range of people and their smart devices. With the rise of large-scale IoT and similar distributed systems, cloud bursting technologies, and partial outsourcing solutions, private entities are encouraged to increase their efficiency and offer unparalleled availability and reliability to their users. The Research Anthology on Architectures, Frameworks, and Integration Strategies for Distributed and Cloud Computing is a vital reference source that provides valuable insight into current and emergent research occurring within the field of distributed computing. It also presents architectures and service frameworks to achieve highly integrated distributed systems and solutions to integration and efficient management challenges faced by current and future distributed systems. Highlighting a range of topics such as data sharing, wireless sensor networks, and scalability, this multi-volume book is ideally designed for system administrators, integrators, designers, developers, researchers, academicians, and students.

Enzyme Inhibition - Environmental and Biomedical Applications Academic Press

This contributed volume is primarily intended for graduate and professional audiences. The book provides a basic understanding of urban air quality issues, root causes for local and urban air pollution, monitoring and modelling techniques, assessment, and control options to manage air quality at local and urban scale. The book also offers useful information on indoor air quality and smart sensors, which are gaining much importance in current times.

Advanced Computer and Communication Engineering Technology IOS Press

This book is a collection of chapters focusing on green composite materials. The selection of natural fibers and polymer matrix materials, and the bonding between them forms an essential aspect of this book. The book discusses the chemical treatment of natural fibers and their compatibility with different matrix materials. The growing applications of composites in every day life ranging from automobiles to aerospace are also discussed. The book highlights the importance of processing of natural fiber reinforced composite materials to enhance their mechanical strength and performance. The contents of

this book will be beneficial for students, researchers and industry professionals working on composite materials.

Advances in Computing and Information Technology Bentham Science Publishers

This book presents selected papers from the International Conference on Renewable Energy Systems (ICRES 2020). It throws light over the state of the art of renewable energy sources and their technological advances. Renewable energy sources discussed in this book include solar, wind, biomass, fuel cells, hydropower , hydrogen, nuclear, and geothermal. This book comprehensively explains each of these sources, materials associated, technological development, economics and their impact on the environment. As the renewable energy sources are intermittent, they require specific power electronic converter to convert the generated power into useful form that can be used for utility. Hence, this book describes different forms of power converter such as AC-DC, DC-DC, DC-AC and AC-AC. Advanced power semiconductor devices, their gate drive and protection circuits, heat sink design and magnetic components for power converter are the additional topics included in this book. The topics covered in these proceedings will have a large impact among academicians, researchers, policy makers, scientists, practitioners and students in fields of electronics and electrical engineering, energy engineering, automotive engineering, and so on.

International Conference on Computer Applications - Computer Applications I Springer

This book consists of select proceedings of the 1st International Conference on Sustainable Technologies and Advances in Automation, Aerospace and Robotics (STAAAR 2022). This book focuses on advancements in the fields of robotics and automation, applications of AI, aerodynamics, computational fluid dynamics, material characterization, renewable energy, computer-aided engineering design, rapid prototyping, aerospace engineering, and dynamics and vibrations. The major topics in the book include Industry 4.0, applications of additive manufacturing in biomedical, automotive and aviation industries, implants and prosthesis applications in human body, applications of latest technologies such as machine learning, IoT, static and dynamic balancing, force transmissibility, advanced mechanisms, etc. This book provides vital information to researchers, academicians and industrialists to enhance their knowledge in the field of recent advancements in the field of mechanical engineering.

Research Anthology on Architectures, Frameworks, and Integration Strategies for Distributed and Cloud Computing Springer

The International Conference on Advanced Computing Technology(ICACT 2023) has been organised by Department of Computer Science and Engineering, Velammal College of Engineering and Technology, Madurai. The thrust of this conference is to exchange and share the experiences and research results on all aspects of the design, development, testing, implementation of intelligent systems. It also provides a premier interdisciplinary platform for researchers, practitioners, and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of computational intelligence and its applications.

Advancement, Opportunities, and Practices in Telehealth Technology Springer Nature

This two-volume set (CCIS 201 and CCIS 202) constitutes the refereed proceedings of the International Conference on Computer Science and Education, CSE 2011, held in Qingdao, China, in July 2011. The 164 revised full papers presented in both volumes were carefully reviewed and selected from a large number of submissions. The papers address a large number of research topics and applications: from artificial intelligence to computers and information technology; from

education systems to methods research and other related issues; such as: database technology, computer architecture, software engineering, computer graphics, control technology, systems engineering, network, communication, and other advanced technology, computer education, and life-long education.

Intelligent Systems and Computer Technology IGI Global

This book explores the production and applications of biochar. This material is used to remove contaminants from industrial effluent and to reutilize waste sludge in the production of biofuel/bioenergy. The treatment of wastewater and reuse of waste sludge in value added products manufacturing and environmental clean-up is explored. The proposed book provides a roadmap for future strategies for pollution abatement and sustainable development.